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What is claimed is:

1. A method for data transmission, comprising the steps of:  
receiving a multimedia stream through an electronic medium, the stream comprising a plurality of vectors; and  
based on the vectors, adding a plurality of error protection units to the multimedia stream.
2. A method for data transmission, comprising the steps of:  
receiving a video stream through an electronic medium, the stream comprising a plurality of vectors;  
assigning an importance to the vectors;  
based on the importance, partitioning the video stream; and  
based on the importance, adding a plurality of error protection units to the video stream.
3. A method for data transmission, comprising the steps of:  
generating a video transmission;  
converting the video transmission to a video stream, the video stream comprising a plurality of vectors;  
based on the importance, partitioning the video stream; and  
based on the importance, adding a plurality of error protection units to the video stream.
4. The method as recited in claim 1 further comprising the step of assigning an importance to each vector; and wherein the step of adding further comprises adding the error protection units based on the importance.
5. The method as recited in claim 1 further comprising the step of sending the multimedia stream

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with the error protection units over an electronic medium.

6. The method as recited in claim 1 wherein the multimedia stream is a video stream.
7. The method as recited in claim 1 wherein the multimedia stream is in the MPEG format.
8. The method as recited in claim 1 wherein the vectors are used to form one or more data elements from the group consisting of: a total energy (or variance) data element, a mean or variance data element, a global direction measure data element, and a plurality of small random motion data elements; and wherein the error protection units are added to the multimedia stream based on the data elements.
9. The method as recited in claim 1 further comprising the steps of selecting a plurality similar vectors from the vectors based on a direction and adding the error protection units based on the similar vectors.
10. The method as recited in claim 2 further comprising the step of sending the video stream with the error protection units over an electronic medium.
11. The method as recited in claim 2 wherein the video stream is in the MPEG format.
12. The method as recited in claim 2 wherein the vectors are used to form one or more data elements from the group consisting of: a total energy (or variance) data element, a mean or variance data element, a global direction measure data element, and a plurality of small random motion data elements; and wherein error protection units are added to the video stream based on the data elements; and wherein the video stream is partitioned based on the data elements.

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13. The method as recited in claim 2 further comprising the steps of selecting a plurality of similar vectors from the vectors based on a direction and adding the error protection units based on the similar vectors.
14. The method as recited in claim 3 further comprising the step of sending the video stream with the error protection units over an electronic medium.
15. The method as recited in claim 3 wherein the video stream is in the MPEG format.
16. The method as recited in claim 3 wherein the vectors are used to form one or more data elements from the group consisting of: a total energy (or variance) data element, a mean or variance data element, a global direction measure data element, and a plurality of small random motion data elements; and wherein error protection units are added to the video stream based on the data elements; and wherein the video stream is partitioned based on the data elements.
17. The method as recited in claim 3 further comprising the steps of a plurality of similar vectors from the vectors based on a direction and adding the error protection units based on the similar vectors.
18. The method as recited in claim 1 further comprising the step of adding UEP to the multimedia stream based on the vectors.
19. The method as recited in claim 2 further comprising the step of adding UEP to the video stream based on the vectors.
20. The method as recited in claim 3 further comprising the step of adding UEP to the video stream based on the vectors.

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## 21. A system comprising:

- a motion-vector extractor for extracting one or more motion vectors from a video stream;
- a video stream partitioner for partitioning the video stream;
- an error-protection controller for adding error protection to the video stream;
- an analysis software tool for assigning an importance to each of the motion vectors, controlling the error-protection controller to add error protection based on the assigned importance, and controlling the video stream partitioner for partitioning the video stream based on the assigned importance; and
- a transmitter for sending the video stream to a device.

## 22. A computer-readable medium, having stored thereon, computer executable process steps operative to control a computer to document source files, the steps comprising:

- receiving a multimedia stream through an electronic medium, the stream comprising a plurality of vectors; and
- based on the vectors, adding a plurality of error protection units to the multimedia stream.

## 23. A computer-readable medium, having stored thereon, computer executable process steps operative to control a computer to document source files, the steps comprising:

- receiving a video stream through an electronic medium, the stream comprising a plurality of vectors;
- assigning an importance to the vectors;
- based on the importance, partitioning the video stream; and
- based on the importance, adding a plurality of error protection units to the video stream.

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24. A computer-readable medium, having stored thereon, computer executable process steps operative to control a computer to document source files, the steps comprising:

generating a video transmission;

converting the video transmission to a video stream, the video stream comprising a plurality of vectors;

based on the importance, partitioning the video stream; and

based on the importance, adding a plurality of error protection units to the video stream.